Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)

2. (Previously Presented) The method of claim 20, wherein each R^4 is independently

(a) H,

(b) halo,

(e) SR^{12},

(f) $S(O)_mR^{13}$,

(g) NR^9R^{10},

(h) $NR^9S(O)_mR^{13}$,

(i) $NR^9C(=O)OR^{13}$,

(j) phenyl optionally substituted by one or more R^8,

(k) heteroaryl optionally substituted by one or more R^8,

(l) cyano,

(m) nitro,

(n) $CONR^9R^{10}$,

(o) CO_2R^{12},

(p) $C(=O)R^{13}$,

(q) $C(=NOR^{12})R^{13}$,

(s) $NR^9C(=O)$-R^{12},

(t) C_{1-7}alkyl, C_{1-7} alkenyl or C_{1-7} alkynyl each of which is optionally substituted by one or more R^{11}, or

(u) het^1 optionally substituted by one or more R^8.

3. (Previously Presented) The method of claim 2, wherein each R^4 is independently selected from NO_2, H, Br, F, CF_3, CN, NH_2, -C(O)-OCH_3, -S-CH_3, -$S(O)_2$-CH_3, -N(OCH_3)-CH_3, -NH-C(O)-O-tbutyl, -NH-C(O)-CH_3, heteroaryl optionally

substituted by one or more R^8, het^1 optionally substituted by one or more R^8, $-S(O)_2-CH_3$, or phenyl optionally substituted by one or more of NO_2, Cl, F, $-OCH_3$, and $-OCF_3$.

4. (Previously Presented) The method of claim 20, wherein each R^3 is H.

5. (Previously Presented) The method of claim 20, wherein R^1 is $-C(O)R^6$.

6. (Previously Presented) The method of claim 20, wherein R^2 is $-C(O)R^7$.

7. (Previously Presented) The method of claim 6, wherein R^1 is $-C(O)R^6$.

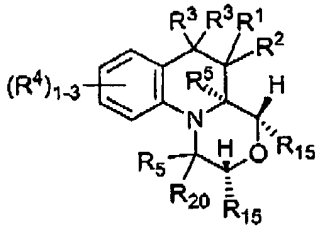
8. (Previously Presented) The method of claim 7, wherein R^6 and R^7 form $-N(R^{17})-C(O)-N(R^{17})-$ or $-N(R^{17})-C(S)-N(R^{17})-$.

9-10. (Canceled)

11. (Previously Presented) The method of claim 20, wherein each R^{15} is independently H, or C_{1-7} alkyl optionally substituted by one or more R^{11} substituents.

12. (Previously Presented) The method of claim 11, wherein X is $-C(H)(C_{1-4}$ alkyl$)-O-C(H)(C_{1-4}$ alkyl$)-$.

13. (Currently Amended) The method of claim 20, wherein the compound has the formula of



and each R_{15} is independently

(b) OR^{11},

~~(c) Oxo,~~

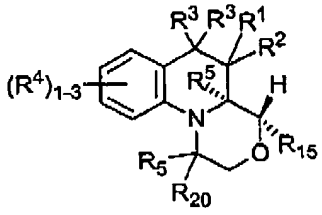
(d) C_{1-7} alkyl which is optionally substituted by one or more R^{11} substituents,

(e) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more R^{11} substituents,

(f) aryl optionally substituted by one or more R^8, or

(g) heteroaryl optionally substituted by one or more R^8.

14. (Currently Amended) The method of claim 20, wherein the compound has the formula of



and each R_{15} is independently

(b) OR^{11},

~~(c) Oxo,~~

(d) C_{1-7} alkyl which is optionally substituted by one or more R^{11} substituents,

(e) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more R^{11} substituents,

(f) aryl optionally substituted by one or more R^8, or

(g) heteroaryl optionally substituted by one or more R^8.

15. (Previously Presented) The method of claim 20, wherein R^{16} is $(C=O)OR^{13}$ or C_{1-7} alkyl.

16. (Previously Presented) The method of claim 20, wherein each R^5 is independently H or C_{1-7}alkyl.

17. (Currently Amended) The method of claim 20 wherein the compound ~~comprises~~ is selected from the group consisting of:

(2R,4S,4aS)-2,4-dimethyl-8-nitro-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

1,2,4,4a-Tetrahydro- 2,4-dimethylspiro[[1,4]oxazino[4,3-a]quinoline-5(6H), 5' (2' H)-pyrimidine]-2',4',6' (1' H,3' H)-trione;

8-Bromo-1,2,4,4a-tetrahydro-2,4-dimethylspiro[[1,4]oxazino[4,3-a]quinoline-5(6H), 5' (2' H)-pyrimidine]-2',4',6' (1' H,3' H)-trione;

8-Fluoro-1,2,4,4a-tetrahydro-2,4-dimethylspiro[[1,4]oxazino[4,3-a]quinoline-5(6H), 5' (2' H)-pyrimidine]-2',4',6' (1' H,3' H)-trione;

1,2,4,4a-Tetrahydro-2,4-dimethyl-8-trifluoromethylspiro[[1,4]oxazino]4,3-a] quinoline-5(6H), 5' (2' H)-pyrimidine]-2',4',6' (1' H,3' H)-trione;

1,1',2, 3'4,4',4a, 6'-Octrahydro-2,4',6'-trioxospiro[[1,4]oxazino[4,3-*a*] quinoline-5(6*H*), 5' (2' *H*)-pyrimidine]-8-carbonitrile;

1,2,4,4a-Tetrahydro-2,4-dimethyl-8-carboxamidespiro[[1,4]oxazino[4,3-a]quinoline-5(6H), 5' (2' H)-pyrimidine]-2',4',6' (1' H,3' H)-trione;

1,2,4,4a-Tetrahydro-8-nitrospiro[[1,4]oxazino[4,3-a]quinoline-5(6H), 5' (2' H)-pyrimidine]-2',4',6' (1' H,3' H)-trione;

1,2,4,4a-Tetrahydro-2,4-dimethylspiro[[1,4]oxazino[4,3-a]quinoline-5(6H), 5' (2' H)-pyrimidine]-2',4',6' (1' H,3' H)-trione;

1,2,4,4a-Tetrahydro-1,4a-dimethyl-8-nitrospiro[[1,4]oxazino[4,3-a]quinoline-5(6H), 5' (2' H)-pyrimidine]-2',4',6' (1' H,3' H)-trione;

8-Bromo-1,2,4,4a-tetrahydro-cis-2,4-dimethylspiro[[1,4]oxazino[4,3-a]quinoline-5(6H), 5' (2' H)-pyrimidine]-4'-thioxo-2',6' (1' H,3' H)-dione;

8-Bromo-1,2,4,4a-tetrahydro-cis-2,4-dimethylspiro[[1,4]oxazino[4,3-a]quinoline-5(6H), 5' (2'*H*)pyrimidine]-2',4',6' (1' methyl, 3' methyl)-trione;

N-[1,1',2,3',4,4',4a,6'-Octahydro-2,4-dimethyl-2',4',6'-trioxospiro[[1,4]oxazino[4,3-a]quinolone-5(6*H*),5'(2'*H*)-pyrimidin]-8-yl]acetamide;

tert-butyl 1,1',2, 3',4,4',4a,6'-Octahydro-2,4-dimethyl-2',4',6'-trioxospiro[[1,4]oxazino[4,3-a]quinolone-5(6*H*),5'(2'*H*)-pyrimidin]-8-ylcarbamate;

8-Amino-1,2,4,4a-tetrahydro-2,4-dimethylspiro[[1,4]oxazino[4,3-a]quinolone-5(6*H*),5'(2'*H*)-pyrimidine]-2',4',6'(1'*H*,3'*H*)-trione monohydrochloride;

9-Bromo-1,2,4,4a-tetrahydro-2,4-dimethyl-8-nitrospiro[[1,4]oxazino[4,3-a]quinoline-5(6*H*), 5'(2'*H*)-pyrimidine]-2',4',6'(1'*H*,3'*H*)-trione;

8-Acetyl-1,2,4,4a-tetrahydro-2,4-dimethylspiro[[1,4]oxazino[4,3-a]quinoline-5(6*H*),5′(2*H*)-pyrimidine)-2′,4′,6′ (1′*H*,3′*H*)-trione;

8-Ethanone-O-methyloxime-l-1,2,4,4a-tetrahydro-2,4-dimethylspiro[[1,4]oxazino[4,3-a]quinoline-5(6*H*),5′(2*H*)-pyrimidine)-2′,4′,6′ (1′*H*,3′*H*)-trione;

1,2,4,4a-Tetrahydro-2,4-dimethyl-8-(methylsulfonyl)spiro[[1,4]oxazino [4,3-a]quinoline-5(6*H*),5′(2′*H*)-pyrimidine]-2′,4′,6′(1′*H*,3′*H*)-trione;

1,2,4,4a-Tetrahydro-2,4-dimethyl-8-(methylsulfinyl)spiro[[1,4]oxazino [4,3-a]quinoline-5(6*H*),5′(2′*H*)-pyrimidine]-2′,4′,6′(1′*H*,3′*H*)-trione;

1,2,4,4a-Tetrahydro-2,4-dimethyl-8-(methylthio)spiro[[1,4]oxazino[4,3-a]quinoline-5(6*H*),5′(2′*H*)-pyrimidine]-2′,4′,6′(1′*H*,3′*H*)-trione;

1,2,4,4a-Tetrahydro-2,4-dimethyl-9-nitrospiro[[1,4]oxazino[4,3-a]quinoline-5(6*H*),5′(2′*H*)-pyrimidine]-2′,4′,6′(1′*H*,3′*H*)-trione;

1,2,4,4a-Tetrahydro-2,4-dimethyl-8-nitrospiro[[1,4]oxazino[4,3-a]quinoline-5(6*H*),5′(2′*H*)-pyrimidine]-2′,4′,6′(1′*methyl*,3′*methyl*)-trione;

1,2,4,4a-Tetrahydro-2,4-dimethyl-8-nitrospiro[[1,4]oxazino[4,3-a]quinoline-5(6*H*),5′(2′*H*)-pyrimidine]-2′,4′,6′(1′*H*, 3′*methyl*)-trione;

1,2, 4,4a-Tetrahydro-4-methyl-8-nitrospiro[[1,4]oxazino[4,3-a]quinoline-5(6*H*),5′(2′*H*)-pyrimidine]-2′,4′,6′(1′*H*,3′*H*)-trione;

1,2,4,4a-Tetrahydro-2-methyl-8-nitrospiro[[1,4]oxazino[4,3-a]quinoline-5(6*H*),5′(2′*H*)-pyrimidine]-2′,4′,6′(1′*H*,3′*s*)-trione;

1,1’,2’3’4’4’a-Hexahydro-2’,4’-dimethyl-1,3-dioxospiro[2*H*-indene-2,5’(6’*H*)-[1,4]oxazino[4,3-*a*]quinoline]-8’-carbonitrile;

1,2,4,4a-Tetrahydro-2,4-dimethyl[1,4]oxazino[4,3-*a*]quinoline-5,5,8(6*H*)-tricarbonitrile;

8-Bromo-1,2,4-4a-tetrhydro-2,4-dimethyl[1,4]oxazino[4,3-*a*]quinoline-5,5(6*H*)-dicarbonitrile;

9-(4-Chlorophenyl)-1,2,4,4a-tetryhydro-2,4-dimethylspiro[[1,4]oxazino[4,3-*a*]quinoline-5(6*H*),5’(2’*H*)-pyrimidine]-2’,4’,6’(1’*H*,3’*H*)-trione;

1,2,4,4a-Tetrhydro-2,4-dimethyl-9-[4-(trifluoromethyoxy)phenyl] spiro[[1,4]oxazino[4,3-*a*]quinoline-5(6*H*),5’(2’*H*)pyrimidine]-2’4’6’(1’*H*,3’*H*)-trione;

1,2,4,4a-Tetrahydro-9-(methoxyphenyl)-2,4-dimethylspiro[[1,4]oxazino[4,3-*a*]quinoline-5(6*H*),5'(2'*H*)-pyrimidine]-2',4',6'(1'*H*,3'*H*)-trione;

9-(3-Chloro-4-fluorophenyl)-1,2,4,4a,-tetrahydro-2,4-dimethylsprio[[1,4]oxazino[4,3-*a*]quinoline-5(6*H*),5'(2'*H*)-pyrimidine]-2',4',6'(1'*H*,3'*H*)-trione;

1,2,4,4a-Tetrahydro-2,4-dimethyl-9-(3-nitrophenyl)spiro[[1,4]oxazino[4,3-*a*]quinoline-5(6*H*),5'(2'*H*)-pyrimidine]-2',4',6'(1'*H*,3'*H*)trione;

1,1',2,3',4,4',4a,6'-Octahydro-2-4-dimethyl-2',4',6'-trioxospiro[[1,4]oxazino[4,3-*a*]quinoline-5(6*H*),5(2'*H*)-pyrimidin]-9-yl]benzonitrile;

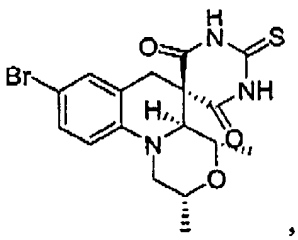
1,2,4,4a-Tetrahydro-2,4-dimethyl-9-[4-(methylsulfonyl)phenyl] spiro[[1,4]oxazino[4,3-*a*]quinoline-5(6*H*),5'(2'*H*)-pyrimidine]-2',4',6'(1'*H*,3'*H*)-trione;

1,2,4,4a-Tetrahydro-2,4-dimethyl-9-(4-pyridinyl)spiro[[1,4]oxazino[4,3-*a*]quinoline-5(6*H*),5'(2'*H*)-pyrimidine]-2',4',6'('*H*,3'*H*)-trione;

Methyl-1,1'-2,3',4,4a,6'-Octahydro-2,4-dimethyl-2',4',6'-trioxospiro[[1,4]oxazino [4,3-*a*]quinoline-5(6*H*),5'(2'*H*)-pyrimidine]-9-carboxylate; ~~or~~ and

Methyl-1,1'-2,3',4,4a,6'-Octahydro-2,4-dimethyl-2',4',6'-trioxospiro[[1,4]oxazino [4,3-*a*]quinoline-5(6*H*),5'(2'*H*)-pyrimidine]-8-carboxylate.

18. (Currently Amended) The method of claim 20 wherein the compound ~~comprises~~ is selected from the group consisting of: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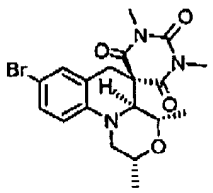
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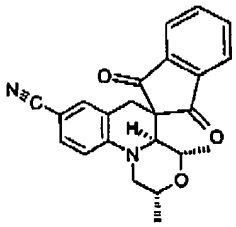
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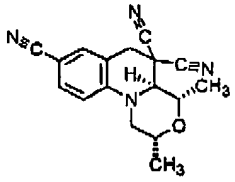
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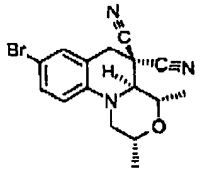
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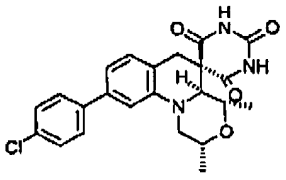
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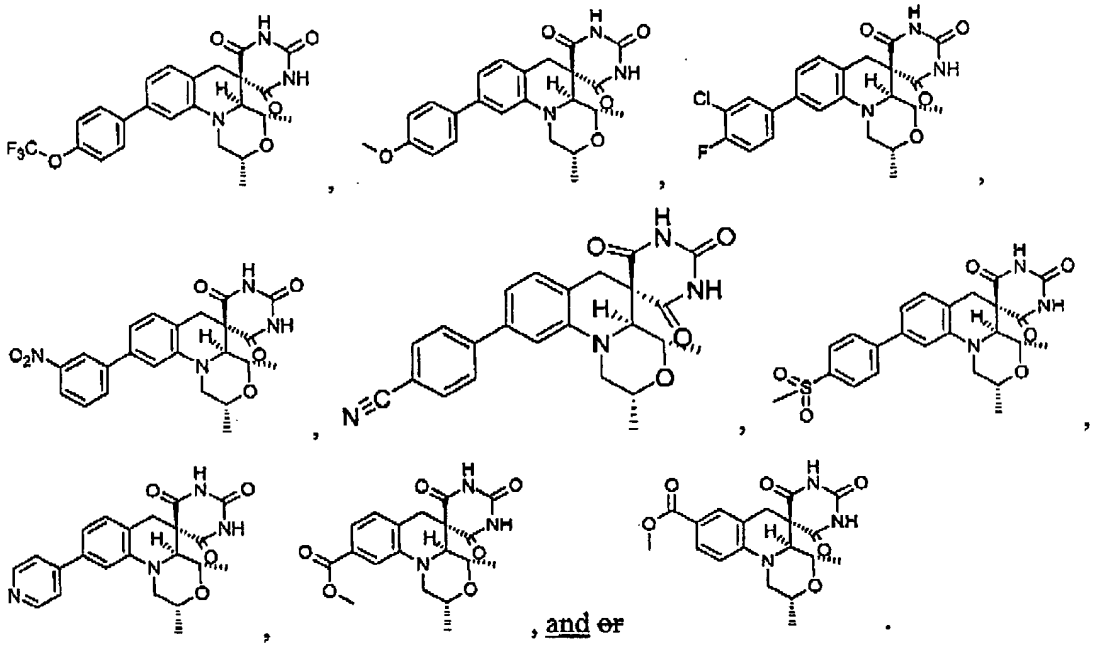
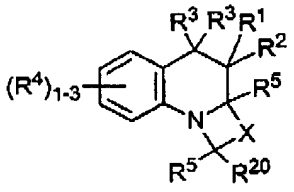


, and ~~or~~

19. (Canceled)

20. (Currently Amended) A method for the treatment of bacterial infections in mammals comprising administration of an effective amount of a compound of formula I, including enantiomeric, diastereomeric, or tautomeric isomers thereof, or any pharmaceutically acceptable salt thereof to said mammal;



I

wherein,

R^1 is

(a) R^{12}

(b) $C(=O)R^6$, or

(c) CN;

R^2 is

(a) R^{12}

(b) $C(=O)R^7$,

(c) CN,

(d) $-CH_2-R^7$,

(e) $-NR^{17}R^7$,

(f) $-CH_2COR^7$, or

(g) $-CH_2CH_2COR^7$;

Each R^3 is independently

(a) H,

(b) R^{12},

(c) C_{1-7} alkyl, C_{1-7} alkenyl or C_{1-7} alkynyl each of which is optionally substituted by one or more R^{11},

(d) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more R^{11},

(e) aryl optionally substituted by one or more R^8,

(f) heteroaryl optionally substituted by one or more R^8,

(g) halo, or

(h) both R_3 taken together are oxo;

Each R^4 is independently

(a) H,

(b) halo,

(c) OR^{12},

(d) $OC(=O)NR^9R^{10}$,

(e) SR^{12},

(f) $S(O)_mR^{13}$,

(g) NR^9R^{10},

(h) $NR^9S(O)_mR^{13}$,

(i) $NR^9C(=O)OR^{13}$,

(j) phenyl optionally substituted by one or more R^8,

(k) heteroaryl optionally substituted by one or more R^8,

(l) cyano,

(m) nitro,

(n) $CONR^9R^{10}$,

(o) CO_2R^{12},

(p) $C(=O)R^{13}$,

(q) $C(=NOR^{12})R^{13}$,

(r) $S(O)_mNR^9R^{10}$,

(s) $NR^9C(=O)$-R^{12},

(t) C_{1-7} alkyl, C_{1-7} alkenyl or C_{1-7} alkynyl each of which is optionally substituted by one or more R^{11},

(u) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more R^{11},

(v) N_3,

(w) het^1 optionally substituted by one or more R^8, or

(x) $C(O)O$-C_{1-4}alkyl-R^{12};

Each R^5 is independently,

(a) H,

(b) C_{1-7} alkyl, C_{1-7} alkenyl or C_{1-7} alkynyl each of which is optionally substituted by one or more R^{11},

(c) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more R^{11},

(d) aryl optionally substituted by one or more R^8, or

(e) heteroaryl optionally substituted by one or more R^8;

R^6 and R^7 are independently;

(a) OR^{12},

(b) NR^9R^{10},

(c) R^{13}, or

(e) R^6 and R^7 together with the 2 carbons to which they are attached form cyclohexane-1,3-dione optionally substituted by one or more R^{13}, cyclopentane-1,3-dione optionally substituted by one or more R^{13}, R^6 and R^7 together form $-N(R^{17})-S(O)_m-$

$N(R^{17})$-, $-N(R^{17})-C(O)-N(R^{17})$-, $-N(R^{17})-C(S)-N(R^{17})$-, $-N(R^{17})-N(R^{17})$-, $-N(R^{17})-C(O)$-, or $-N(R^{17})$-, or R^6 and R^7 together form a phenyl ring;

R^8 is

(a) H,

(b) halo,

(c) OR^{12},

(d) OCF_3,

(e) SR^{12},

(f) $S(O)_mR^{13}$,

(g) NR^9R^{10},

(h) $NR^9S(O)_mR^{13}$,

(i) $NR^9C(=O)OR^{13}$,

(j) phenyl optionally substituted by halo, cyano, C_{1-7}alkyl, or C_{1-7}alkoxy, in the alkyl portion of the C_{1-7}alkyl and C_{1-7}alkoxy is optionally substituted by one or more R^{11};

(k) heteroaryl optionally substituted by halo, C_{1-7}alkyl, or C_{1-7}alkoxy,

(l) cyano,

(m) nitro,

(n) $CONR^9R^{10}$,

(o) CO_2R^{12},

(p) $C(=O)R^{13}$,

(q) $C(=NOR^{12})R^{13}$,

(r) $S(O)_mNR^9R^{10}$,

(s) $NR^9C(=O)-R^{12}$,

(t) C_{1-7} alkyl, C_{1-7} alkenyl or C_{1-7} alkynyl each of which is optionally substituted by one or more R^{11},

(u) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more R^{11},

(v) -C(O)H, or

(w) -het^1;

R^9 and R^{10} are independently

(a) H,

(b) OR^{12},

(c) aryl optionally substituted by one or more R^{14},

(d) heteroaryl optionally substituted by one or more R^{14},

(e) C_{1-7}alkyl which is optionally substituted by one or more R^{11},

(f) C_{3-8}cycloalkyl which is optionally substituted by one or more R^{11},

(g) $(C=O)R^{13}$, or

(h) R^9 and R^{10} together with the nitrogen to which they are attached form morpholine, pyrrolidine, piperidine, thiazine, piperazine, each of the morpholine, pyrrolidine, piperidine, thiazine, piperazine being optionally substituted with R^{11};

R^{11} is

(a) oxo,

(b) phenyl optionally substituted by one or more R^{14},

(c) OR^{12},

(d) SR^{12},

(e) $NR^{12}R^{12}$,

(f) halo,

(g) CO_2R^{12},

(h) $CONR^{12}R^{12}$,

(i) C_{1-7} alkyl, C_{1-7} alkenyl or C_{1-7} alkynyl each of which is optionally substituted by one or more oxo, halo, OR^{12}, SR^{12}, C_{1-7}alkyl, or $NR^{12}R^{12}$ substituents, or

(j) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more oxo, halo, OR^{12}, SR^{12}, C_{1-7}alkyl, or $NR^{12}R^{12}$ substituents;

R^{12} is

(a) H,

(b) C_{1-7} alkyl, C_{1-7} alkenyl or C_{1-7} alkynyl each of which is optionally substituted by oxo, halo, C_{1-7}alkyl, or C_{1-7}alkoxy substituents,

(c) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more oxo, halo, C_{1-7}alkyl, or C_{1-7}alkoxy substituents,

(d) aryl optionally substituted by one or more halo, C_{1-7}alkyl, or C_{1-7}alkoxy substituents, or

(e) heteroaryl optionally substituted by one or more halo, C_{1-7}alkyl, or C_{1-7}alkoxy substituents;

R^{13} is

(a) C_{1-7} alkyl which is optionally substituted by one or more by oxo, halo, carboxyl, C_{1-7}alkyl, or C_{1-7}alkoxy substituents,

(b) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more by oxo, halo, C_{1-7}alkyl, or C_{1-7}alkoxy substituents,

(c) aryl optionally substituted by one or more halo, C_{1-7}alkyl, or C_{1-7}alkoxy substituents;

(d) heteroaryl optionally substituted by one or more halo, C_{1-7}alkyl, or C_{1-7}alkoxy substituents, or

(e) -C(O)OH

R^{14} is

(a) H,

(b) halo,

(c) C_{1-7}alkyl,

(d) OR^{12},

(e) OCF_3,

(f) SR^{12},

(g) $S(O)_mR^{13}$,

(h) $NR^{12}R^{12}$,

(i) $NR^{12}S(O)_mR^{13}$,

(j) $NR^{12}C(=O)OR^{13}$,

(k) phenyl optionally substituted by halo, C_{1-7}alkyl, or C_{1-7}alkoxy,

(l) heteroaryl optionally substituted by halo, C_{1-7}alkyl, or C_{1-7}alkoxy,

(m) cyano,

(n) nitro,

(o) $CONR^{12}R^{12}$,

(p) CO_2R^{12},

(q) $C(=O)R^{13}$,

(r) $C(=NOR^{12})R^{13}$,

(s) $S(O)_mNR^{12}R^{12}$,

(t) $NR^9C(=O)\text{-}R^{12}$,

(u) $C_{1\text{-}7}$ alkyl, $C_{1\text{-}7}$ alkenyl or $C_{1\text{-}7}$ alkynyl each of which is optionally substituted by oxo, halo, OR^{12}, SR^{12}, $C_{1\text{-}7}$alkyl, or $NR^{12}R^{12}$ substituents, or

(v) $C_{3\text{-}8}$ cycloalkyl, $C_{3\text{-}8}$ cycloalkenyl or $C_{3\text{-}8}$ cycloalkynyl each of which is optionally substituted by oxo, halo, OR^{12}, SR^{12}, $C_{1\text{-}7}$alkyl, or $NR^{12}R^{12}$ substituents;

X is $-C(R^{15})_2\text{-}O\text{-}C(R^{15})_2-$;

Each R^{15} is independently

(a) H,

(b) OR^{11},

~~(c) Oxo,~~

(d) $C_{1\text{-}7}$ alkyl which is optionally substituted by one or more R^{11} substituents,

(e) $C_{3\text{-}8}$ cycloalkyl, $C_{3\text{-}8}$ cycloalkenyl or $C_{3\text{-}8}$ cycloalkynyl each of which is optionally substituted by one or more R^{11} substituents,

(f) aryl optionally substituted by one or more R^8, or

(g) heteroaryl optionally substituted by one or more R^8;

R^{16} is

(a) H

(b) OR^{12},

(c) $(C=O)R^{13}$,

(d) $(C=O)OR^{13}$,

(e) $(C=O)NR^9R^{10}$,

(f) $S(O)_mR^{13}$,

(g) $S(O)_mNR^9R^{10}$,

(h) C_{1-7} alkyl which is optionally substituted by one or more R^{11} substituents,

(i) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more R^{11} substituents,

(j) aryl optionally substituted by one or more R^8, or

(k) heteroaryl optionally substituted by one or more R^8;

R^{17} is

(a) H,

(b) -OH, or

(c) C_{1-4}alkyl;

R^{19} is

(a) H,

(b) OR^{11},

(c) Oxo,

(d) C_{1-7} alkyl which is optionally substituted by one or more R^{11} substituents,

(e) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more R^{11} substituents,

(f) aryl optionally substituted by one or more R^8, or

(g) heteroaryl optionally substituted by one or more R^8;

R^{20} is

(a) H,

(b) C_{1-7} alkyl, C_{1-7} alkenyl or C_{1-7} alkynyl each of which is optionally substituted by one or more R^{11},

(c) C_{3-8} cycloalkyl, C_{3-8} cycloalkenyl or C_{3-8} cycloalkynyl each of which is optionally substituted by one or more R^{11},

(d) aryl optionally substituted by one or more R^8,

(e) heteroaryl optionally substituted by one or more R^8, or

(f) R^{20} and R^{19}, taken together, form $-CH_2-$;

wherein, "aryl" denotes a phenyl radical or an ortho-fused bicyclic carbocyclic radical having about nine to ten ring atoms in which at least one ring is aromatic;

wherein, "heteroaryl" encompasses a radical attached via a ring carbon or ring nitrogen of a monocyclic aromatic ring containing five or six ring atoms consisting of carbon and 1, 2, 3, or 4 heteroatoms, selected from oxygen (-O-), sulfur (-S-), sulfinyl (S=O) and sulfonyl ($S(=O)_2$), or nitrogen N(Z) wherein Z is absent or is H, O, C_{1-4}alkyl, phenyl or benzyl, or a radical of an ortho-fused bicyclic heterocycle of about eight to ten ring atoms derived therefrom;

het^1 is a C- or N- linked five- (5), six- (6), seven- (7), or eight- (8) membered mono- or bicyclic ring, each mono- or bicyclic ring being fully saturated or partially unsaturated, and having 1-4 heteroatoms selected from the group consisting of oxygen, sulfur, and nitrogen; het^1 being optionally substituted by 1-2 substituents selected from C_1-C_4alkyl, amino, C_1-C_4alkylamino, C_1-C_4alkyloxy, halogen –CN, =O, and =S;

each m is independently 0, 1, or 2; and

each n is independently 1, 2, or 3.

21. (Previously Presented) The method of claim 20 wherein said compound is administered to the mammal orally, parenterally, transdermally, or topically in a pharmaceutical composition.

22. (Original) The method of claim 20 wherein said compound is administered in an amount of from about 0.1 to about 100 mg/kg of body weight/day.

23. (Original) The method of claim 20 wherein said compound is administered in an amount of from about 1 to about 50 mg/kg of body weight/day.

24-25. (Canceled)

26. (Previously Presented) The method of claim 20 wherein the composition comprises an enantiomerically enriched form of a compound of formula I.

27. (Previously Presented) The method of claim 26, wherein the composition comprises at least 50% of one enantiomer of a compound of formula I relative to the other enantiomer of the compound.

28. (Previously Presented) The method of claim 27, wherein the composition comprises at least 80% of one enantiomer of a compound of formula I relative to the other enantiomer of the compound.

29. (Previously Presented) The method of claim 27, wherein the composition comprises at least 90% of one enantiomer of a compound of formula I relative to the other enantiomer of the compound.

30. (Currently Amended) The method of claim 20 wherein the compound ~~comprises~~ is selected from the group consisting of:

(2S,4R,4aR)-4-isopropyl-2-methyl-8-nitro-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2R,4S,4aS)-2,4-diethyl-8-nitro-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2R,4S,4aS)-2,4-dimethyl-8-nitro-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2R,4S,4aS)-8-acetyl-9,10-difluoro-2,4-dimethyl-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2R,4S,4aS)-10-fluoro-2,4-dimethyl-8-nitro-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2R,4S,4aS)-2,4-dimethyl-8-[5-(trifluoromethyl)-1,2,4-oxadiazol-3-yl]-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

1,2,4,4a-Tetrahydro-2,4-dimethyl-8-nitrospiro[[1,4]oxazino[4,3-a]quinoline-5(6H),5'(2'H)-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2S,4R,4aR)-2-isopropyl-4-methyl-8-nitro-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2S,4R,4aR)-2-isopropyl-4-methyl-8-nitro-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2R,4S,4aS)-2,4-diisopropyl-8-nitro-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2R,4S,4aS)-2,4-dimethyl-8-(3-methyl-1,2,4-oxadiazol-5-yl)-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2S,4R,4aR)-8-acetyl-10-fluoro-2,4-dimethyl-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

8-bromo-2,4-dimethyl-10-nitro-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2R,4S,4aS)-2,4-dimethyl-8-(5-methyl-1,2,4-oxadiazol-3-yl)-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

(2S,4S,4aS)-4-methyl-8-nitro-2-(trifluoromethyl)-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione;

4-azido-3-iodobenzyl (2R,4S,4aS)-2,4-dimethyl-2',4',6'-trioxo-1,1',2,3',4,4',4a,6'-octahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-8-carboxylate; and

~~or~~

(2S,4S,4aS)-2,4-dimethyl-8-nitro-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione.

31. (Currently Amended) The method of claim 20 wherein:

when each R_4 is H, that R_1 and R_2 are not simultaneously H, CN, or -C(O)-OCH_3 or that R_1 is not CN and R_2 is not –C(O)-OC_{1-4}alkyl;

~~when the compound is 1,2,4,4a-Tetrahydro-cis-2,4-dimethyl-8-nitrospiro[[1,4]oxazino[4,3-a]quinoline-5(6H),5'-(2'H)-pyrimidine]-2',4',6'-(1'H,3'H)-trione that the compound is enantiomerically enriched ( ) form of (2R,4S,4aS)-2,4-dimethyl-8-nitro-1,2,4,4a-tetrahydro-2'H,6H-spiro[1,4-oxazino[4,3-a]quinoline-5,5'-pyrimidine]-2',4',6'(1'H,3'H)-trione~~.

32. (Previously Presented) The method of claim 20 wherein the compound of formula I is administered as a pharmaceutical composition, wherein the pharmaceutical composition additionally comprises a pharmaceutically acceptable carrier.

33. (Previously Presented) The method of claim 4 wherein:

R^1 is $-C(O)R^6$;

R^2 is $-C(O)R^7$;

each R^4 is independently selected from H, F and heteroaryl optionally substituted by one or more R^8;

each R^5 is H;

R^6 and R^7 form $-N(R^{17})-C(O)-N(R^{17})-$;

each R^{17} is H;

R^{20} is H; and

X is $-C(H)(C_{1-4}$ alkyl$)-O-C(H)(C_{1-4}$ alkyl$)-$.

34. (Previously Presented) The method of claim 33 wherein R^8 is C_{1-7} alkyl.

35. (Previously Presented) The method of claim 13 wherein:

R^1 is $-C(O)R^6$;

R^2 is $-C(O)R^7$;

each R^3 is H;

each R^4 is independently selected from H, F and heteroaryl optionally substituted by one or more R^8;

each R^5 is H;

R^6 and R^7 form $-N(R^{17})-C(O)-N(R^{17})-$;

each R^{15} is C_{1-7} alkyl;

each R^{17} is H; and

R^{20} is H.

36. (Previously Presented) The method of claim 35 wherein R^8 is C_{1-7} alkyl.

37. (New) The method of claim 13 wherein:

R^1 is $-C(O)R^6$;

R^2 is $-C(O)R^7$;

each R^3 is H;

each R^4 is independently selected from H, halo, and heteroaryl optionally substituted by one or more R^8;

each R^5 is H;

R^6 and R^7 form $-N(R^{17})-C(O)-N(R^{17})-$;

each R^{15} is C_{1-7} alkyl;

each R^{17} is H; and

R^{20} is H.